

Receiving Report

Date: 15-08-06

Batch No: 132919

Supplier: Air dynamics

Dart P/O: 28994

Packing Slip:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Release Note Attached:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Invoice:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Waybill Attached:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Receipt:	Cash <input type="checkbox"/>	Cr <input checked="" type="checkbox"/>	Shipment Complete:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
New Supplier	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	QC18 Inspection	<input type="checkbox"/>		N/A <input type="checkbox"/>
			Work Order	<input type="checkbox"/>		N/A <input type="checkbox"/>

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver

QC12

SP

Production/Admin:

Date

Received/Costing

Initial

Location



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO28994**

Purchase Order Date 6/30/2015

PO Print Date 6/30/2015

Page Number 1 of 1

Order From :
AIR DYNAMICS
19420B CLARK GRAHAM AVENUE
BAIE D'URFE, QUEBEC H9X 3R8

VC-AD001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

RECEIVED

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	514-457-4287	Customer POID	
		Customer Tax #	10127-2607
Ship To Contact		Terms	Net 30
Ship To Phone		Currency	CAD
Ship Via:	Purolator ground collect	FOB	EXW - (Ex Works)
Ship Acct:			

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	71400-11	515x349 DESOTO PRIMER	7/17/2015		4.00 ✓	\$355.00	\$1,420.00
	Procurement Quality Clauses		Yes				
	A005 RIGHT OF ENTRY		7/17/2015				
	A012 CHEMICAL AND PHYSICAL TEST REPORTS						
	A013 SHELF LIFE CONTROLLED MATERIAL; 80% SHELF LIFE REQUIRED AT RECEIPT						
	A026 CERTIFICATION OF MATERIAL CONFORMANCE						
	A041 QUALITY MANAGEMENT SYSTEM						
	A043 RETENTION OF QUALITY DOCUMENTS						

SP15-08-06

Deliver To: ANDY

Line Total: \$1,420.00

PO Total: \$1,420.00

PO Instructions: Purolator Acc#7684382

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 6/30/2015



Air Dynamics

19420B Clark Graham Avenue Tel.: (514) 457-4287
Baie D'Urfé, Québec H9X 3R8 Fax: (514) 457-4143

**BON DE
LIVRAISON**

PACKING SLIP 732289

CUSTOMER NO. 700

Facture à:
Invoice to:

Expédié à:
Ship to:

DART AEROSPACE LTD
1270 ABERDEEN STREET
HAWKESBURY ON K6A 1K7

ACCTS PAY/ DALE BATES

SAME

Date	Expédié par/Ship via:	F.A.B./F.O.B.	Conditions/Terms
08/05/15	PUROLATOR COLLECT		

No. de commande Purchase order no.	Date de commande Order date	Vendeur(se)/Salesperson	Notre No. de commande/Our order number
PO28994	06/30/15	BRENDA SHEA	

Qté req/ Qty req	Expédié Shipped	En souffe/ B.O.	No. d'article Item Number	Description	Prix unitaire Unit price	Prix rapporté Extended price
4	4	✓	515X349	ORDERED BY CHANTAL LAVOIE- SHIP VIA PUROLATOR		
4	4	✓	BATCH	PRIMER - GREEN (GL.KIT) DMS2147/BMS10-79 TY.3 (C/W 910x533)		
				BATCH #B: 31221 KIT LOT# 699576 EXP. APRIL 2016		
1	1	✓	TEST REPORTS	BASE- 515X349 LOT# 528804- 1 GALLON		
				ACTIVATOR- 910X533- LOT# 205404 -1 GALLON		
				TEST REPORT		
				CERTIFICATION/ MSDS INCLUS		

JE CERTIFIE PAR LES PRESENTES QUE LES PIECES D'AERONEFS
DECRIRES DANS LE PRESENT CERTIFICAT ONT ETE OBTENUES D'UNE
SOURCE D'APPROVISIONNEMENT CONFORME AUX CONDITIONS
AUXQUELLES LE CERTIFICAT D'AUTORISATION DE DISTRIBUTION
NO. 12-89 DU MINISTERE DES TRANSPORTS A ETE ATTRIBUE.

DATE

SIGNE

5 août 2015
Brenda Shea

AD
5

I hereby certify that the aircraft parts, appliances and/or
materials described hereon were acquired from a source of
supply that is consistent with the conditions under which
the Department of Transport distributor approval
No. 12-89 has been granted.

Date:

Inspector's Signature

August 5, 2015
Brenda Shea

Certificate of Conformance/ Certificat de conformité

Packing Slip/Bon de ramassage 58032175 Page: 1 of 2

PPG CANADA INC
PPG AEROSPACE - ASC CANADA
5676 Timberlea Blvd.
Mississauga, ON L4W 4M6
Phone: 905-629-7999

Fax: 905-629-7009

Order Date/ 07/13/15
Date de la Commande:
Cust. No./ tc000104
No. de réf du client:
Terms/ NET45
Termes:
Cust. P.O./ 031221
No. de bon de Commande:
Site: 3738CN

Order No/ S134333
No. de Commande: 07/31/15
13:08:26
CSR:

Remarks/
Remarques: brenda/mh

Ship via/ GOJIT
Expédié par:

Ship To 000104

Expédié à AIR DYNAMICS COMPANY LIMITED
19420B CLARK GRAHAM AVENUE
BAIE D'URFE, PQ H9X 3R8
CANADA

Sold To/ tc000104

Vendu à: AIR DYNAMICS COMPANY LIMITED
19420B CLARK GRAHAM AVENUE
BAIE D'URFE, PQ H9X 3R8
CANADA

031221

05 AOUT 2015

Line/ Ligne	Qty Ordered/ Qté. commandée.UM	Description	Req Date/ Date Requite	Due Date/ Date Due	Promise Date/ Date Promise	Qty to Ship/ Qté. Disponible	Qty Picked/ Qté. Livrée
<p>Quality Requirements: CERTIFICATE OF CONFORMANCE & TEST REPORT FOR ITEM 7 & 9 MIN 90% SHELF LIFE ITEMS MADE AT ASC CANADA- PURCHASED ITEMS 75% SHELF LIFE FOR ITEMS BLENDED ITEMS AD WILL ACCEPT SHELF LIFE WHAT IS AVAILABLE SEALANT BULK MATERIAL MFD PPG AEROSPACE, PRC-DESOTO INT'L, MOJAVE,CA MASTINOX BULK MATERIAL MFD PPG AEROSPACE, FRANCE MOJAVE BULK CERT REQUIRED FOR ALL ITEMS *****</p> <p>Labelling Requirements: MANUFACTURE/PACKAGE DATE AND EXPIRY DATE TO APPEAR ON ALL DOCUMENTATION AN LABELS</p> <p>* Shipping Info: PARTIAL SHIPMENT IS ACCEPTABLE SHIP 7+ BOXES VIA GO JIT ACCT #2060881 SHIP 6 BOXES OR LESS VIA DICOM ACCT #0313470</p>							
7	4 EA	0515X349XXIKG22K BMS1079/DMS2144/DHMS/VMS 515X349/910X533 GL KIT Customer Item: 515X349 SPEC: DMS 2144 REV E COMP A SPEC: BMS 10-79 REV P TY III CL A GR A Lot No: 699576 *Location: FRB-5 - 515X349 001____ Batch: 528804 - 910X533 001____ Batch: 205404	08/11/15	08/04/15	08/04/15	4	4

DOM: 4/2015
DOE: 4/2016

Date Shipped/
Date D'expédition

8/4/15

We certify that this material has been manufactured and tested in accordance with applicable specification(s). Test data pertaining to this material is on file and available for inspection upon request.

N Maharaj
Niri Maharaj
ASC CANADA
QC5

26062

7/31

Quality Control



PPG Aerospace
PRC-DeSoto

631221

05 AOUT 2015

PRC-DeSoto International, Inc.
11601 United Street
Mojave, California 93501 USA
Telephone (661) 232-6401
Fax (661) 232-6888
www.ppgaerospace.com

TEST REPORT

Page 1 of 1

REFERENCE: DMS 2144E, Composition A

This is to certify that the material described herein meets or exceeds the test requirements of the referenced specification and that all tests have been performed in accordance to the specification.

BASE: 515X349 BATCH: 528804
ACTIVATOR: 910X533 BATCH: 205404

LOT #: 699576

ASC CANADA
QC5

Canada

IN COMPLIANCE WITH CHEMICAL REGISTRATION LAWS OF

ITEM	REQUIREMENT	RESULT
Condition in Container FTMS 141 Mthd. 3011.1	The material, individual components and catalyzed, shall be easily mixed to a smooth homogenous condition free of skins, grit, lumps, or gelled particles.	Conforms
Spraying Properties FTMS 141 Mthd. 4331.1	The applied film shall be free of streaks, pinholes, bubbles, and other film defects.	Conforms
Non-volatile Content ASTM D2369	Mixed: 39.3 ± 2%	39.78
Weight per Gallon ASTM D1475	Base: 10.80 ± 0.3 lb/gal	10.76
	Catalyst: 7.00 ± 0.2 lb/gal	6.99
Fineness of Grind ASTM D1210	5 minimum	5
Viscosity	14-18 seconds maximum, Zahn #2 cup	17 seconds
Usable Pot Life	Shall meet requirements 13 and 14 after a minimum of 8 hours	Conforms
Settling	Shall show no signs of hard settling and pigment shall readily redisperse.	Conforms
Gloss	Maximum of 15 units.	13.4
Solvent Resistance	No softening or dissolving.	Conforms
Flexibility	Shall be no film failure or adhesion loss before and after aging.	Conforms
Adhesion	No blistering or adhesion failure.	Conforms
DMS 2014 Resistance	No softening below a pencil hardness of F or loss of adhesion.	Conforms, 5H

Edward A. Aguirre, Sr.*

Quality Assurance
Mojave, California
AS9100 REV. C & ISO 9001:2008 Registered QMS

*Signature on File.
DMS 2144D,
8/6/08, vm

Recommendations for the use of our products are based on tests we believe to be reliable. Manufacturer and seller are not responsible for results where the product is used under conditions beyond our control. Under no circumstances will PRC-DeSoto International, Inc. be liable for consequential damages to anyone in excess of the purchase price of the products.



PPG Aerospace
PRC-DeSoto

031221

05 AOUT 2015

PRC-DeSoto International, Inc.
11601 United Street
Mojave, California 93501 USA
Telephone (661) 232-6401
Fax (661) 232-6888
www.ppgaerospace.com

TEST REPORT

Page 1 of 1

REFERENCE: BMS 10-79P, Type III, Class A, Grade A

This is to certify that the material described herein meets or exceeds the test requirements of the referenced specification and that all tests have been performed in accordance to the specification.

URETHANE COMPATIBLE CORROSION RESISTANT PRIMER

BASE: 515X349

BATCH: 528804

DATE MFG: 5/15

CURING SOLUTION: 910X533

BATCH: 205404

DATE MFG:

ASC CANADA

Lot #: 699576

Customer:

QC5

Date Shipped: Shipping Order #: P. O. #: 031221

IN COMPLIANCE WITH CHEMICAL REGISTRATION LAWS OF

TABLE / ITEM		REQUIREMENT	RESULT
II.1	Condition In Container Sec. 8.2.1	All components shall be homogeneous, free of skins, gels, livering, undispersed pigments, and foreign contaminants.	Conforms
II.3	Non-volatile Content ASTM D2369	Base: $60.9 \pm 2.0\%$	61.36
II.4	Amine Content D6-84113	Curing Solution: $5.8 \pm 0.5\%$	5.6
II.5	Weight Per Gallon ASTM D 1475	Base: 10.8 ± 0.2 lb/gal.	10.76
		Curing Solution: 7.0 ± 0.2 lb/gal.	7.0
III.3a	Adhesion, Dry Sec. 8.2.5.1	Fresh Mix: No loss of adhesion. A minimum rating of 7 in accordance with BSS 7225.	Conforms, 10
		Pot Life: No loss of adhesion. A minimum rating of 7 in accordance with BSS 7225.	Conforms, 10
III.3b	Adhesion, Wet Sec. 8.2.5.2	Fresh Mix: No blistering. A minimum rating of 7 in accordance with BSS 7225.	Conforms, 10
		Pot Life: No blistering. A minimum rating of 7 in accordance with BSS 7225.	Conforms, 10
III.6	Hydraulic Fluid Resistance Sec. 8.2.8	Fresh Mix: No visible film deterioration. HB minimum pencil hardness.	Conforms, 5H
		Pot Life: No visible film deterioration. HB minimum pencil hardness.	Conforms, 5H

Rob Reukauf*

Quality Assurance
Mojave, California

AS9100 REV. C & ISO 9001:2008 Registered QMS

*Signature on File.
BMS 10-79
2/26/13, cc

Recommendations for the use of our products are based on tests we believe to be reliable. Manufacturer and seller are not responsible for results where the product is used under conditions beyond our control. Under no circumstances will PRC-DeSoto International, Inc. be liable for consequential damages to anyone in excess of the purchase price of the products.

30014056

Certificate of Conformance

Page: 1 of 1

PRC-DeSoto International, Inc.

A PPG Industries Company

Pick Ticket 40043845

Pack List #: SO271510

PPG Aerospace
11601 United Street
Mojave, CA 93501
UNITED STATES
Phone: 661-824-4532

Fax: 661-824-3840

Order Date: 07/14/15

Cust. No.: MC900102

Terms: IC NET60

Cust. P.O.: TC53006



Site: 3742USPPG Aerospace



07/22/15

17:41:08

CSR:

Transaction Type: STDEAR
Shipment Terms: PPD&ADD

DS-PO#:

Remarks: CC / CE

Shipvia: CAVALIER

031221

05 AOUT 2015

Sold To: MC900102

PPG CANADA INC
PPG AEROSPACE - ASC CANADA
5676 TIMBERLEA BLVD.
MISSISSAUGA, ON L4W 4M6
CANADA

Ultimate MC900102

Consignee PPG CANADA INC

PPG AEROSPACE - ASC CANADA
5676 TIMBERLEA BLVD.
MISSISSAUGA, ON L4W 4M6
CANADA

Fwd FF000034

Agent CANADA TRANSPORT
UNIT #2 4225 ETIWANDA AVE
MIRA LOMA, CA 91752
UNITED STATES

Line	Qty Ordered	UM	Description	Req Date	Due Date	Promise Date	Qty to Ship	Qty Picked
			Cert Required: Yes DOM, DOE MUST APPEAR ON ALL CANS, BOXES AND DOCUMENTATION PLEASE SUPPLY CERTIFICATE OF CONFORMANCE AND TEST REPORT MINIMUM OF 75% S/L REMAINING					
7	4	EA	0515X349XXIKG22K BMS1079/DMS2144/DHMS/VMS 515X349/910X533 GL KIT HTS Number: 3208.90.0000 DMS 2144 REV E COMP A/ BMS 10-79 REV P TY III CL A GR A D.O.M. 4-15 D.O.E. 4-16 REQD FOR EA CONTROL# ON LN ITEM Lot No: 699576 *Location: S206a - 515X349 001 515X349 BASE COMPONENT Batch: 528804 - 910X533 001 910X533 T *L8446 ACTIVATOR COMPONENT Batch: 205404	07/23/15	07/23/15	?	4	4
			2 Boxes II 48, 165					
								000523

Shipped by _____ Date _____

PPG Aerospace/PRC DeSoto International certifies that the above material has been manufactured, tested and conforms to all requirements in accordance with applicable specifications. All test data pertaining to batch acceptance requirements defined by the specification for this material is on file and available for inspection on request. For Non-US PPG Customers, we can only offer Technical Data/Test Reports for any ITAR restricted specifications with valid US export authorization.

PRC-
Desoto
SHP66

Quality Control

**RELEASE
CERTIFICATE**

AIR DYNAMICS

19420B Clark Graham Avenue
Baie d'Urfé, Québec, H9X 3R8

514-457-4287

AD-1(A)

NOMENCLATURE

PART NUMBER

MAKE

SERIAL NUMBER

NEW

REPAIRED

INSPECTED

OVERHAULED

MODIFIED

PREVIOUS CERTIFICATION

I HEREBY CERTIFY THAT THE AIRCRAFT PARTS, APPLIANCES AND/OR MATERIALS DESCRIBED HEREON
WERE ACQUIRED FROM A SOURCE OF SUPPLY THAT IS CONSISTANT WITH THE CONDITIONS UNDER
WHICH THE DEPARTMENT OF TRANSPORT DISTRIBUTOR APPROVAL NO. 12-89 HAS BEEN GRANTED.

DATE

INSPECTOR'S SIGNATURE

PRIMER - GREEN

QTY. 4

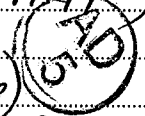
(GL KIT)

515 X 349

MODEL or TYPE

PRC - PPG.

(KIT # 699576)



(Specs - DMS 2144 + BMS 10-79 TY. 3)



B# 31221 (515 X 349

LOT# 528804

910 X 533 LOT# 205404

- Exp. April 2016 -

August 5, 2015

Brenda Shear

JE CERTIFIE PAR LES PRESENTES QUE LES PIECES D'AERONEFS
DECRIRES DANS LE PRESENT CERTIFICAT ONT ETE OBTENUES D'UNE
SOURCE D'APPROVISIONNEMENT CONFORME AUX CONDITIONS
AUXQUELLES LE CERTIFICAT D'AUTORISATION DE DISTRIBUTION
NO. 12-89 DU MINISTERE DES TRANSPORTS A ETE ATTRIBUE.

DATE

5 Août 2015

SIGNE

Brenda Shea



Material Safety Data Sheet



Date of issue 11 June 2015

Version 11.01

1. Product and company identification

Product name : 515X349 BASE COMPONENT
Code : 515X349 BASE COMPONENT
Supplier : PPG Aerospace PRC-DeSoto
12780 San Fernando Road
Sylmar, CA 91342
Phone: 818 362 6711
Emergency telephone : (412) 434-4515 (U.S.)
number : (514) 645-1320 (Canada)
01-800-00-21-400 (Mexico)

2. Hazards identification

Emergency overview : WARNING!
FLAMMABLE LIQUID AND VAPOR. HARMFUL IF ABSORBED THROUGH SKIN. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION. MAY BE HARMFUL IF INHALED OR SWALLOWED. SANDING AND GRINDING DUSTS MAY BE HARMFUL IF INHALED. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.
Keep away from flames, such as a pilot light, and any object that sparks, such as an electric motor. Keep away from heat. Do not smoke. Do not breathe vapor or mist. Do not swallow. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Potential acute health effects

Inhalation : May be harmful if inhaled. Irritating to respiratory system. Can irritate eyes, nose, mouth and throat. May cause sensitization by inhalation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion : May be harmful if swallowed.
Skin : Toxic in contact with skin. Severely irritating to the skin. May cause an allergic skin reaction.
Eyes : Severely irritating to eyes. Risk of serious damage to eyes.

Over-exposure signs/symptoms

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. NTP, IARC, and OSHA have classified chromium (+6) compounds as carcinogenic. OSHA considers all Cr+6 compounds as potential occupational carcinogens capable of causing lung cancer above the recommended exposure limits.

Medical conditions aggravated by over-exposure : Pre-existing respiratory and skin disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

2. Hazards identification

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS).

See toxicological information (Section 11)

3. Composition/information on ingredients

Name	CAS number	% (w/w)
crystalline silica, respirable powder (<10 microns)	14808-60-7	10 - 30
n-butyl acetate	123-86-4	10 - 30
butanone	78-93-3	10 - 30
strontium chromate	7789-06-2	7 - 13
cyclohexanone	108-94-1	5 - 10
butan-1-ol	71-36-3	1 - 5
barium chromate	10294-40-3	0.1 - 1
carbon black, respirable powder	1333-86-4	0.1 - 1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Ingestion	: If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5. Fire-fighting measures

Flammability of the product	: Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
-----------------------------	--

Extinguishing media

Suitable	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Not suitable	: Do not use water jet.
Special exposure hazards	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds metal oxide/oxides

5. Fire-fighting measures

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flames, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Use spark-proof tools and explosion-proof equipment. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not breathe vapor or mist. Ingestion of product or cured coating may be harmful. Do not swallow. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. Vapors are heavier than air and may spread along floors. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
- Storage** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Do not store above the following temperature: 120°F / 49°C.

8 . Exposure controls/personal protection

Name	Result	ACGIH	Ontario	Mexico	PPG
crystalline silica, respirable powder (<10 microns)	TWA	0.025 mg/m ³ R	0.1 mg/m ³ R	0.1 mg/m ³ R	Not established
n-butyl acetate	TWA STEL	150 ppm 200 ppm	150 ppm 200 ppm	150 ppm 200 ppm	Not established Not established
butanone	TWA STEL	200 ppm 300 ppm	200 ppm 300 ppm	200 ppm 300 ppm	Not established Not established
strontium chromate	TWA STEL	0.0005 mg/m ³ (measured as Cr) Not established	0.0005 mg/m ³ (as Cr) Not established	Not established Not established	0.005 mg/m ³ Not established
cyclohexanone	TWA STEL	20 ppm S 50 ppm S	20 ppm S 50 ppm S	50 ppm S 100 ppm S	Not established Not established
butan-1-ol	TWA STEL	20 ppm Not established	20 ppm Not established	Not established 50 ppm S C	Not established Not established
barium chromate	TWA STEL	0.01 mg/m ³ (measured as Cr) Not established	0.01 mg/m ³ (as Cr) Not established	0.05 mg/m ³ Not established	0.005 mg/m ³ Not established
carbon black, respirable powder	TWA STEL	3 mg/m ³ Not established	3 mg/m ³ Not established	3.5 mg/m ³ 7 mg/m ³	Not established Not established

Key to abbreviations

A = Acceptable Maximum Peak
 ACGIH = American Conference of Governmental Industrial Hygienists.
 C = Ceiling Limit
 F = Fume
 IPEL = Internal Permissible Exposure Limit
 R = Respirable
 S = Potential skin absorption

SR = Respiratory sensitization
 SS = Skin sensitization
 STEL = Short term Exposure limit values
 TD = Total dust
 TLV = Threshold Limit Value
 TWA = Time Weighted Average

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Engineering measures : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

8 . Exposure controls/personal protection

Eyes	: Chemical splash goggles.
Hands	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: nitrile, neoprene
Respiratory	: By spraying: air-fed respirator. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Skin	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9 . Physical and chemical properties

Physical state	: Liquid.
Flash point	: Closed cup: -0.56°C (31°F)
Material supports combustion.	: Yes.
Color	: Green.
Odor	: Not available.
pH	: Not available.
Boiling/condensation point	: >37.78°C (>100°F)
Melting/freezing point	: Not available.
Specific gravity	: 1.3
Density (lbs / gal)	: 10.85
Vapor pressure	: Not available.
Vapor density	: Not available.
Evaporation rate	: Not available.
VOC	: 514 g/l
Solubility	: Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/water	: Not available.

10 . Stability and reactivity

- Stability** : Stable under recommended storage and handling conditions (see Section 7).
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
- Materials to avoid** : Reactive or incompatible with the following materials: acids, oxidizing materials, strong alkalis
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

11 . Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-butyl acetate	LD50 Oral	Rat	10.768 g/kg	-
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LC50 Inhalation	Rat	>21.1 mg/l	4 hours
butanone	LD50 Oral	Rat	2737 mg/kg	-
	LD50 Dermal	Rabbit	6480 mg/kg	-
	LC50 Inhalation	Rat	11243 ppm	4 hours
strontium chromate	Vapor			
	LD50 Oral	Rat	3118 mg/kg	-
	LD50 Oral	Rat	1.54 g/kg	-
cyclohexanone	LD50 Dermal	Rabbit	0.948 g/kg	-
	LC50 Inhalation	Rat	8000 ppm	4 hours
	LD50 Oral	Rat	0.79 g/kg	-
butan-1-ol	LD50 Dermal	Rabbit	3400 mg/kg	-
	LC50 Inhalation	Rat	8000 ppm	4 hours
	Vapor			
carbon black, respirable powder	LD50 Oral	Rat	>15400 mg/kg	-
	LD50 Dermal	Rabbit	>3 g/kg	-

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Defatting irritant

: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Target organs

: Contains material which causes damage to the following organs: blood, liver, spleen, brain, bone marrow.
Contains material which may cause damage to the following organs: kidneys, lungs, peripheral nervous system, upper respiratory tract, skin, bones, central nervous system (CNS), ears, eye, lens or cornea.

Carcinogenicity

Carcinogenicity : Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.

Classification

11 . Toxicological information

Product/ingredient name	ACGIH	IARC	NTP
crystalline silica, respirable powder (<10 microns)	A2	1	Known to be a human carcinogen.
strontium chromate	A2	1	Known to be a human carcinogen.
cyclohexanone	A3	3	-
barium chromate	A1	1	Known to be a human carcinogen.
carbon black, respirable powder	A3	2B	-

Carcinogen Classification code:

ACGIH: A1, A2, A3, A4, A5

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

Not listed or regulated as a carcinogen: -

12 . Ecological information

Environmental effects : No known significant effects or critical hazards.

13 . Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information

	TDG	Mexico	IMDG
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	II	II	II
Environmental hazards	Yes.	No.	Yes.
Marine pollutant substances	(strontium chromate)	Not applicable.	(strontium chromate)

14. Transport information

Additional information

TDG : The marine pollutant mark is not required when transported by road or rail.
Mexico : None identified.
IMDG : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

15. Regulatory information

Canada inventory (DSL) : All components are listed or exempted.

Canada

WHMIS (Canada) : Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). Class D-1B: Material causing immediate and serious toxic effects (Toxic). Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

Mexico

Classification

Flammability : 3 Health : 3 Reactivity : 0

16. Other information

Hazardous Material Information System (U.S.A.)

Health : 3 * Flammability : 3 Physical hazards : 0
(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Health : 3 Flammability : 3 Instability : 0

Date of previous issue : 3/17/2015.

Organization that prepared the MSDS : EHS

☑ Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

Material Safety Data Sheet



Date of issue 28 March 2015

Version 9

1. Product and company identification

Product name : 910X533 ACTIVATOR COMPONENT
Code : 910X533 ACTIVATOR COMPONENT
Supplier : PPG Aerospace PRC-DeSoto
12780 San Fernando Road
Sylmar, CA 91342
Phone: 818 362 6711
Emergency telephone number : (412) 434-4515 (U.S.)
(514) 645-1320 (Canada)
01-800-00-21-400 (Mexico)

2. Hazards identification

Emergency overview : DANGER!
FLAMMABLE LIQUID AND VAPOR. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION. MAY BE HARMFUL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED. ASPIRATION HAZARD. CAN ENTER LUNGS AND CAUSE DAMAGE. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE.
Keep away from flames, such as a pilot light, and any object that sparks, such as an electric motor. Keep away from heat. Do not smoke. Do not breathe vapor or mist. Do not swallow. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Potential acute health effects

Inhalation : May be harmful if inhaled. Irritating to respiratory system. Can irritate eyes, nose, mouth and throat. May cause sensitization by inhalation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion : May be harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage.
Skin : Harmful in contact with skin. Irritating to skin. May cause an allergic skin reaction.
Eyes : Severely irritating to eyes. Risk of serious damage to eyes.

Over-exposure signs/symptoms

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. **1-component mixtures:** formaldehyde is released during curing. Formaldehyde may cause irreversible effects, is irritating to the mucous membranes and may cause skin sensitization. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness.

Medical conditions aggravated by over-exposure : Pre-existing respiratory and skin disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

This Material Safety Data Sheet has been prepared in accordance with Canada's Workplace Hazardous Materials Information System (WHMIS).

2. Hazards identification

See toxicological information (Section 11)

3. Composition/information on ingredients

Name	CAS number	% (w/w)
propan-1-ol	71-23-8	30 - 60
toluene	108-88-3	30 - 60
N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3	1 - 5
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	1 - 5
bis[(dimethylamino)methyl]phenol	71074-89-0	0.1 - 1
methanol	67-56-1	0.1 - 1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5. Fire-fighting measures

Flammability of the product : Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Extinguishing media

- Suitable** : Use dry chemical, CO₂, water spray (fog) or foam.
- Not suitable** : Do not use water jet.
- Special exposure hazards** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Hazardous combustion products** : Decomposition products may include the following materials:
carbon oxides
nitrogen oxides
metal oxide/oxides
Formaldehyde.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Use spark-proof tools and explosion-proof equipment. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not breathe vapor or mist. Do not swallow. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. Vapors are heavier than air and may spread along floors. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
- Storage** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Do not store above the following temperature: 120F / 49C.

8. Exposure controls/personal protection

Name	Result	ACGIH	Ontario	Mexico	PPG
propan-1-ol	TWA STEL	100 ppm Not established	100 ppm Not established	200 ppm S 250 ppm S	Not established Not established
toluene	TWA STEL	20 ppm Not established	20 ppm Not established	50 ppm S Not established	Not established Not established
methanol	TWA STEL	200 ppm S 250 ppm S	200 ppm S 250 ppm S	200 ppm S 250 ppm S	Not established Not established

Key to abbreviations

A	= Acceptable Maximum Peak	SR	= Respiratory sensitization
ACGIH	= American Conference of Governmental Industrial Hygienists.	SS	= Skin sensitization
C	= Ceiling Limit	STEL	= Short term Exposure limit values
F	= Fume	TD	= Total dust
IPEL	= Internal Permissible Exposure Limit	TLV	= Threshold Limit Value
R	= Respirable	TWA	= Time Weighted Average
S	= Potential skin absorption		

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Engineering measures : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection**Eyes**

: Chemical splash goggles.

Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Gloves

: butyl rubber

Respiratory

: By spraying: air-fed respirator. By other operations than spraying, in well ventilated areas, air-fed respirators could be replaced by a combination charcoal filter and particulate filter mask. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

11 . Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
propan-1-ol	LD50 Oral	Rat	1870 mg/kg	-
	LD50 Dermal	Rabbit	4.049 g/kg	-
	LC50 Inhalation Vapor	Rat	>9800 mg/m3	4 hours
toluene	LD50 Oral	Rat	636 mg/kg	-
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LC50 Inhalation	Rat	49 g/m3	4 hours
N-(3-(trimethoxysilyl)propyl) ethylenediamine	LD50 Oral	Rat	2413 mg/kg	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Oral	Rat	1200 mg/kg	-
	LD50 Dermal	Rabbit	1.28 g/kg	-
methanol	LD50 Oral	Rat	5600 mg/kg	-
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LC50 Inhalation	Rat	145000 ppm	1 hours

Conclusion/Summary : Not available.

Chronic toxicity

Conclusion/Summary : Not available.

Defatting irritant

: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Target organs

: Contains material which causes damage to the following organs: brain.
Contains material which may cause damage to the following organs: blood, kidneys, the reproductive system, liver, heart, gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

Carcinogenicity**Classification**

Product/ingredient name	ACGIH	IARC	NTP
propan-1-ol	A4	-	-
toluene	A4	3	-

Carcinogen Classification code: ACGIH: A1, A2, A3, A4, A5
IARC: 1, 2A, 2B, 3, 4
NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen
Not listed or regulated as a carcinogen: -

Teratogenicity

Teratogenicity : Contains material which may cause birth defects, based on animal data.

Developmental effects : Contains material which may cause developmental abnormalities, based on animal data.

Fertility effects : Contains material which may impair female fertility, based on animal data.

12 . Ecological information

Environmental effects : No known significant effects or critical hazards.

13 . Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

14. Transport information

	TDG	Mexico	IMDG
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	II	II	II
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

TDG : None identified.

Mexico : None identified.

IMDG : None identified.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

15 . Regulatory information

United States inventory (TSCA 8b) : All components are listed or exempted.

Australia inventory (AICS) : All components are listed or exempted.

Canada inventory (DSL) : All components are listed or exempted.

China inventory (IECSC) : All components are listed or exempted.

Europe inventory (REACH) : Please contact your supplier for information on the inventory status of this material.

15 . Regulatory information

Japan inventory (ENCS) : All components are listed or exempted.

Korea inventory (KECI) : All components are listed or exempted.

New Zealand (NZIoC) : All components are listed or exempted.

Philippines inventory (PICCS) : All components are listed or exempted.

Canada

WHMIS (Canada) : Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).

Mexico

Classification

Flammability : 3 Health : 3 Reactivity : 0

16 . Other information

Hazardous Material Information System (U.S.A.)

Health : 3 * Flammability : 3 Physical hazards : 0

(*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Health : 3 Flammability : 3 Instability : 0

Date of previous issue : 1/21/2015.

Organization that prepared the MSDS : EHS

✓ Indicates information that has changed from previously issued version.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.